

COMPOSITE CARRIER PEAK LIMITING METHOD**Abstract of the Invention**

- A method for reducing the PAR of a composite carrier includes obtaining the in-phase and quadrature components for each of the carriers in the composite carrier, computing vector magnitudes corresponding to each carrier, then adding the vector magnitudes and comparing the resulting sum to a threshold. If the sum exceeds the threshold, at least one of the carriers are attenuated, thereby reducing the PAR of the composite carrier. In one embodiment, only the carrier or carriers having significantly larger vectors are attenuated.
- 5 The pre-calculation and the subsequent attenuation process allows the composite carrier PAR to be reduced to avoid peak regrowth when the carriers are ultimately combined and transmitted.
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15